PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAEMIAN RAJ	04/25/2017
YING MA	08/02/2017
DONGQING LI	05/09/2017
JAY D. PINSON II	05/08/2017

RECEIVING PARTY DATA

Name:	APPLIED MATERIALS, INC.	
Street Address:	reet Address: 3050 BOWERS AVENUE	
City:	SANTA CLARA	
State/Country: CALIFORNIA		
Postal Code: 95054		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15494186

CORRESPONDENCE DATA

Fax Number: (713)623-4846

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 713-623-4844

Email: psdocketing@pattersonsheridan.com,

aregan@pattersonsheridan.com

Correspondent Name: PATTERSON & SHERIDAN, LLP

Address Line 1: 24 GREENWAY PLAZA

Address Line 2: **SUITE 1600**

Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER: APPM/23942US **NAME OF SUBMITTER:** KEITH M. TACKETT **SIGNATURE:** /Keith M. Tackett/ **DATE SIGNED:** 08/14/2017

Total Attachments: 6

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PATENT REEL: 043278 FRAME: 0805

EPAS ID: PAT4548009

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PATENT REEL: 043278 FRAME: 0806

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Daemian RAJ 4479 Eggers Drive Fremont, California 94536	2)	Ying MA 19319 Garrison Avenue Castro Valley, California 94546
3)	DongQing LI 40600 Marino Way Fremont, California 94539	4)	Jay D. PINSON, II 6879 Queenswood Way San Jose, California 95120

(hereinafter referred to as Assignors), have invented a certain invention entitled;

METHOD & APPARATUS TO PREVENT DEPOSITION RATE/THICKNESS DRIFT, REDUCE PARTICLE DEFECTS & INCREASE REMOTE PLASMA SYSTEM LIFETIME

for which application for Letters Patent in the United States was filed on April 21, 2017, under Serial No. 15/494,186, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filled and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filling and prosecuting substitute, conventional, divisional, continuing or additional applications covering said Invention; (d) for filling and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such

PATENT REEL: 043278 FRAME: 0807

cooperation shall be paid for by said Assignee.

- 3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- 4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said	Assignors have	executed an	nd delivered this	instrument to
said Assignee on the dates indicated below.	· 16	À		
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1)	04/25/2017 (DATE)	Daeplian RAJ
2)	(DATE)	Ying MA
3)	(DATE)	DongQing LI
4)	(DATE)	Jav D. PINSON. II

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1)	(DATE)	Daemian RAJ
2)	(DATE)	Ying MA
3)	5/9/17 (DATE)	Dong Qing LI
4)	(DATE)	lay D. PINSON II

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1)	(DATE)	
		Daemian RAJ
2)	(DATE)	
,		Ying MA
3)	(DATE)	
•		DongQing LI
4)	MAY 8, 2017 (DATE)	Jan D X MESON
		Jay D. PINSON, 11

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PATENT

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2)	(DATE)	DocuSigned by: Uing Ma F10998F966884EC Ying MA
3)	(DATE)	DongQing LI
4)	(DATE)	Jay D. PINSON, II